

1 **ABSTRACT OF THE DISCLOSURE**

2 A tunable filter with a wide free spectral range is provided, having a first
3 collimator, and a second collimator, and a mirror or Bragg reflector interposed
4 between the first and second collimators. A resonance cavity is defined in the
5 space between the Bragg reflector and the second collimator that is able to
6 modulate the wavelength of a light beam passing through the filter. The variable
7 wavelength tunable filter is able to provide better optical performance and
8 stability and a simplified construction of the resonance cavity as compared with
9 direct fiber couplings and traditional tunable filters.